CHAPTER VI PAVEMENT STRUCTURE DESIGN

| Specificatio Item No. | | escription | Factor | | | |
|--|---|------------------|--|--|--|--|
| | PLANT MIX BITU | MINOUS BASE COUR | | | | |
| 301-60 301-20.05 | Asphalt Cement (Bituminous Base) Mineral Aggregate (Bituminous Base) | | 0.112 Mg/m³ of Compacted Mixture 2.268 Mg/m³ of Compacted Mixture | | | |
| | AGGREGA | TE BASE COURSE | | | | |
| 304-00 304-04 | ype 1 or Type 2 Aggregate for Base ype 4 Aggregate for Base Total Weight of Base Material at Optimum Moisture Content | | 2.492 Mg/m³ Compacted 2.219 Mg/m³ Compacted | | | |
| | AGGREO | GATE SURFACE | | | | |
| 310 | Gravel, Crushed Stone and Chat | | $0.00167 \text{ Mg/m}^2/\text{mm}$ or $0.001 \text{ m}^3/\text{m}^2/\text{mm}$ (Based on 1.661 Mg/m^3 of loose Aggregate) | | | |
| | PLANT MIX BIT | TUMINOUS PAVEMEN | TT | | | |
| 401- <u> </u> | Asphalt Cement, (Bituminous Pavement) Mineral Aggregate (Bituminous Pavement | | 0.125 Mg/m³ of Compacted Mixture 2.233 Mg/m³ of Compacted Mixture | | | |
| 402 402-15.10 | PLANT MIX BITUMI Asphalt Cement, (Surface Leveling) Mineral Aggregate (Surface Leveling) (Obtain Factors from Division of Maint | NOUS SURFACE LEV | ELING | | | |
| | ASPHALTIC CO | ONCRETE PAVEMEN | Γ | | | |
| 403 4 | Asphalt Cement (Asphaltic Concrete) Mineral Aggregate (Asphaltic Concrete) Asphalt Cement (Asphaltic Concrete) Mineral Aggregate (Asphaltic Concrete) Asphalt Cement (Asphaltic Concrete) Asphalt Cement (Asphaltic Concrete) Mineral Aggregate (Asphaltic Concrete) Mineral Aggregate (Asphaltic Concrete) Asphalt Cement (Asphaltic Concrete) Mineral Aggregate (Asphaltic Concrete) Mineral Aggregate (Asphaltic Concrete) Mineral Aggregate (Asphaltic Concrete) Mineral Aggregate (Asphaltic Concrete) | (Type IC Mix) | 0.121 Mg/m³ of Compacted Mixture 2.209 Mg/m³ of Compacted Mixture 0.102 Mg/m³ of Compacted Mixture 2.268 Mg/m³ of Compacted Mixture 0.113 Mg/m³ of Compacted Mixture 0.113 Mg/m³ of Compacted Mixture 2.226 Mg/m³ of Compacted Mixture 0.116 Mg/m³ of Compacted Mixture 2.283 Mg/m³ of Compacted Mixture 0.127 Mg/m³ of Compacted Mixture 2.463 Mg/m³ of Compacted Mixture 0.135 Mg/m³ of Compacted Mixture 0.135 Mg/m³ of Compacted Mixture 2.202 Mg/m³ of Compacted Mixture 0.129 Mg/m³ of Compacted Mixture 0.129 Mg/m³ of Compacted Mixture 2.217 Mg/m³ of Compacted Mixture 0.109 Mg/m³ of Compacted Mixture 0.109 Mg/m³ of Compacted Mixture 0.150 Mg/m³ of Compacted Mixture 0.150 Mg/m³ of Compacted Mixture 0.230 Mg/m³ of Compacted Mixture 0.150 Mg/m³ of Compacted Mixture | | | |
| ROAD MIX BITUMINOUS PAVEMENT | | | | | | |
| 405-10 405-25 405-10 405-25 | Liquid Asphalt (Road Mix) Aggregate Liquid Asphalt (Road Mix) Aggregate | | 53 L/Mg of Aggregate 2.136 Mg/m³ of Compacted Mixture 89 L/m³ of Loose Aggregate 1.29 m³/m³ of Compacted Mixture | | | |

Estimate Factors

Sheet 1 of 4 Figure 6-07.1 Rev. 12-1-97 **METRIC**

CHAPTER VI PAVEMENT STRUCTURE DESIGN

| 407-10.00 | Tack | TACK COAT | 0.225 L/m^2 |
|-----------|---------------------------------|------------|--|
| | | PRIME COAT | |
| 408-20 | Prime | | 1.7 L/m ² (Aggregate Base) |
| 408-30.00 | Sanding Primer | | 1.1 L/m ² (Color Coat) 0.0018 m ³ /m ² |
| | | SEAL COAT | |
| 409-15.05 | Bituminous Material (seal coat) | | 1.7 L/m^2 |
| 409-25 | Cover Aggregate | | 0.015 Mg/m^2 |

NOTE: These factors are estimates and deviation from them may be made if specific job conditions warrant using other factors. Mix designs have been established for most rock formations and the designer should request specific factor recommendations from the District Materials Engineer.

CHAPTER VI PAVEMENT STRUCTURE DESIGN

| Specification Item No. | | escription | Factor | | | |
|------------------------------|--|-----------------------------------|--|--|--|--|
| | PLANT MIX BITU | JMINOUS BASE COUL | | | | |
| 301-60 301-20.00 | Asphalt Cement (Bituminous Base) Mineral Aggregate (Bituminous Base) | | 0.094 Ton/yd ³ Compacted Mixture 1.911 Ton/yd ³ Compacted Mixture | | | |
| | | | The state of the s | | | |
| 304-00 | AGGREGA Type 1 or Type 2 Aggregate for Base | TE BASE COURSE | 2.10 Tons/yd³ Compacted | | | |
| 304-04 | Type 4 Aggregate for Base | | 1.87 Tons/yd Compacted | | | |
| | Total Weight of Base Material at Optin | num Moisture Content | , . | | | |
| | AGGREO | GATE SURFACE | | | | |
| 310 | Gravel, Crushed Stone and Chat | | 0.039 Ton/yd²/inch or | | | |
| | | | 0.028 yd ³ /yd ² /inch (Based on | | | |
| | | | 1.40 Tons/yd ³ of loose Aggregate) | | | |
| | | CUMINOUS PAVEMEN | | | | |
| 401 | Asphalt Cement, (Bituminous Pavement) | | 0.105 Ton/yd ³ Compacted Mixture | | | |
| 401-20 | Mineral Aggregate (Bituminous Pavemer | nt) | 1.882 Ton/yd ³ Compacted Mixture | | | |
| | PLANT MIX BITUMI | NOUS SURFACE LEV | ELING | | | |
| 402 | Asphalt Cement, (Surface Leveling) | | | | | |
| 402-20.10 | Mineral Aggregate (Surface Leveling) | 1.77. (0".) | | | | |
| | (Obtain Factors from Division of Maint | enance and Traffic) | | | | |
| | | ONCRETE PAVEMEN | | | | |
| 403 | Asphalt Cement (Asphaltic Concrete) | (Type A Mix) | 0.102 Ton/yd ³ Compacted Mixture | | | |
| 403 | Mineral Aggregate (Asphaltic Concrete) | | 1.862 Ton/yd ³ Compacted Mixture | | | |
| 403 | Asphalt Cement (Asphaltic Concrete) | (Type IB Mix) | 0.086 Ton/yd ³ Compacted Mixture | | | |
| 403 | Mineral Aggregate (Asphaltic Concrete) | | 1.911 Ton/yd ³ Compacted Mixture | | | |
| 403 | Asphalt Cement (Asphaltic Concrete) | (Type IC Mix) | 0.095 Ton/yd ³ Compacted Mixture | | | |
| 403 | Mineral Aggregate (Asphaltic Concrete) | | 1.876 Ton/yd ³ Compacted Mixture | | | |
| 403 | Asphalt Cement (Asphaltic Concrete) | (Type LP Mix) | 0.098 Ton/yd ³ Compacted Mixture | | | |
| 403 | Mineral Aggregate (Asphaltic Concrete) | (Type LP Mix) | 1.924 Ton/yd ³ Compacted Mixture 0.107 Ton/yd ³ Compacted Mixture | | | |
| 403 | Asphalt Cement (Asphaltic Concrete) Mineral Aggregate (Asphaltic Concrete) | (Type LS Mix) (Type LS Mix) | 2.076 Ton/yd Compacted Mixture | | | |
| 403 | Asphalt Cement (Asphaltic Concrete) | (Type LS Mix) (Type SP125 Mix) | 0.114 Ton/yd ³ Compacted Mixture | | | |
| 403 403 | Mineral Aggregate (Asphaltic Concrete) | (Type SP125 Mix) (Type SP125 Mix) | 1.856 Ton/yd ³ Compacted Mixture | | | |
| 403 | Asphalt Cement (Asphaltic Concrete) | (Type SP190 Mix) | 0.109 Ton/yd Compacted Mixture | | | |
| 403 | Mineral Aggregate (Asphaltic Concrete) | (Type SP190 Mix) | 1.868 Ton/yd ³ Compacted Mixture | | | |
| 403 | Asphalt Cement (Asphaltic Concrete) | (Type SP250 Mix) | 0.092 Ton/yd³ Compacted Mixture | | | |
| 403 | Mineral Aggregate (Asphaltic Concrete) | (Type SP250 Mix) | 1.944 Ton/yd³ Compacted Mixture | | | |
| 403 | Asphalt Cement (Asphaltic Concrete) | (Type SMA Mix) | 0.126 Ton/yd Compacted Mixture | | | |
| 403 | Mineral Aggregate (Asphaltic Concrete) | | 1.879 Ton/yd ³ Compacted Mixture | | | |
| ROAD MIX BITUMINOUS PAVEMENT | | | | | | |
| 405-10 | Liquid Asphalt (Road Mix) | OMINOUSTAVENIEN | 12.8 Gal/Ton of Aggregate | | | |
| 405-20 | Aggregate (Road Wilk) | | 1.80 Ton/yd³ Compacted Mixture | | | |
| 405-10 | Liquid Asphalt (Road Mix) | | 18 Gal/yd ³ Loose Aggregate | | | |
| 405-20 | Aggregate (Road Wilk) | | 1.29 yd ³ Loose/yd ³ of Comp. Mixture | | | |
| · | | | , , , , , , , , , , , , , , , , , , , | | | |

Estimate Factors

Sheet 3 of 4 Figure 6-07.1 Rev. 7-14-97

ENGLISH

CHAPTER VI PAVEMENT STRUCTURE DESIGN

| 407-10.05 | Tack | TACK COAT | 0.05 Gal/yd ² |
|-----------|---------------------------------|------------|---|
| | | PRIME COAT | |
| 408-10 | Prime | | 0.35 Gal/yd ² (Aggregate Base) |
| | | | 0.25 Gal/yd ² (Color Coat) |
| 408-20.00 | Sanding Primer | | $0.002 \text{ yd}^3/\text{yd}^2$ |
| | | SEAL COAT | |
| 409-10.05 | Bituminous Material (seal coat) | | 0.35 Gal/yd ² |
| 409-20 | Cover Aggregate | | 0.0125 Ton/yd^2 |

NOTE: These factors are estimates and deviation from them may be made if specific job conditions warrant using other factors. Mix designs have been established for most rock formations and the designer should request specific factor recommendations from the District Materials Engineer.